54 TAT	108 CTC	162 TTC	216 GAG	270 CTC L	324 AAT N	378 GAA E	432 TAT Y
GCT	CCT	TCA	225	GTG V	CAT H	GAA (	AAC 1
CCT	೨೦೨	TTT	CAA	TTA L	CTA	GCA A	AGC
45 AAC	99 CCG	153 TCC	207 ACC	261 GTG V	315 TCT S	369 GAA E	423 CAG Q
0	GTC	TCC	GTG	CTG L	AAA K	GCT A	GGT
CGC	CCA	TAC	GCT	ATT	GAC	ATT I	CCA P
392 333 36	90 CGC	144 TTT	198 CGG	252 TGG W	306 CAA Q	360 2AG 2	414 AAG K
သသ	AGC	TGT	၁၅၁	ACT	AGC S	AAT GAA O	AAC N
27 TTG ACT	TGC	TCC	CAG	299	GGA	AAT N	GAA E
27 TTG	81 TCC	135 TCT	189 GCC	243 ACC T	297 GGA GGA G G	351 TTG L	405 CCA P
18 CCT GGA GAC 1	AGA	255	GGA	CTC GGG	Ę,	351 CCT TTG A	E C
GGA	CAG	CCT	CCA	CTC	AAA K	AGA R	TAT Y
18 CCT	72 TGT	126 CCT	180 GCT	234 TTC F	288 CCC AAA ( P K I	342 GAA AGA ( E R I	396 ACA TAT C T Y I
CTA	GAG	CAC	ACA		TTC	GCA A	AAA K
9 TCC CCT	GTC	ACC	GCT	ATG M	GCT	AGT	AAA K
	63 ACC	117 CAC	171 AAA	225 AGA	279 CAA Q	333 TTA L	387 ATT I
CGC	TTG	222	ACA	GGA	ATT	GAA	AAG K
CAG	သသ	SCG	ATA	CGT	CCG	AGA R	GAC
5							

FIGURE 1A

### ACCYVENCE LEAVED

486 ATT I	540 GTG V	594 ACT T	648 CTA L	702 ATT I	756 AAT N	810 GAG E
AAA K	AAT O	TCT A	CAA C	AGG A	CTT A	8 GCA G A E
GAA	TTG	GAC	CAT H	GCC	CTA (	GTA (
477 AAG K	531 AAG K	585 TAT Y	639 CTT L	693 GCT A	747 AAA K	801 GAA E
GAA E	AAT N	GAT D	GGT G	ATC	TCT	GAT D
ACA T	GAT D	GAT D	GAT	AAA ATC K	GTT	GAA E
468 ATA I	522 CTT L	576 ATC I	630 CCA P	84 AT	738 ATT I	792 CTG L
GCA A	CCA P	CTG L	GAT D	GTC	A.A.G K	ACA T
AAG K	TCC	AAA CTG K L	GAT GAT (D D )	675 A GAC ATT GTC C D I V H	GAC	CAT H
459 CTA	513 AGC S	567 3GA	621 CAA Q	675 GAC D	729 FTT	783 GCA A
CTG L	AGA R	AAT N	TTT F	75 E	GCC GTG	CAA
AAC	ATA I	AAG K	AAA K	GCT	GCC	AGC
450 TTG L	504 TCT S	558 ACC AAG AAT C T K N F	612 CAT H	666 ACC GCT ( T A I	720 AGA R	774 GAA E
AAC N	CAA O	TCA	GAT D	TTA L	GAC	ACA T
GAT	AGA R	GAT D	TTG L	CCT	AAT N	ATC
441 GTT V	495 GAA E	549 GTT V	603 GGA G	657 ACT T	711 GAA E	765 CTT L
TTT	AAA K	GAT D	AGT S	999 G	GAA E	9 9
TCT	GAG E	GAA E	AAG K	GAC D	TAT Y	CTC

FIGURE 1B

### YOUYZOHO DETHUE

864 AAT N	918 ACT T	972 GTA V	981 990 1008 1017 1026 TCT AAC ACA TTA ACC TTG ACT TG GAA AGG AGA ACT AAA ACC TAC AGT S N T L T L T N G L E R R T K T Y S	.080 AAA K	.134 ATG M	188 CCA P	
CCC	GTG V	ACA T	TAC Y	CTG L	ATC I	1 TCT S	
GAT D	AAA K	GAA E	ACC	CTA	ACT T	ATA I	
855 GAG E	909 GAG E	963 GAT D	L017 AAA K	L071 GCG A	.125 ATT I	ACA T	
GAG	CCA P	AAC N	ACT T	TAT Y	CTG	GGA G	
TAT Y	ATA I	GAA E	AGA R	TTC	ACA	TAT Y	
846 AAT N	900 AAA K	954 GGA G	L008 AGG R	1062 AAT N	.116 GAA E	170 AAA K	
AAC N	GGA G	AAG K	GAA	CCA P	AAA K	GTG V	10
GCC	GCT	GCT A	TTG	TTC	GAG	ATG M	JRE
837 GAA E	891 CAG Q	945 CTT L	999 GGC G	1053 TAT Y	L107 AAA K	161 ATG M	FIGURE 1C
AAG K	AAT N	GGT	AAT N	CAA	GCA A	AAG K	_
TCA	GAG	GAT D	ACA T	CTC	GAA E	GTG V	
828 ATC I	882 ACT T	936 CAA Q	990 TTG L	1044 GAA E	L098 AAA K	.152 TTT F	
TTA L	TGG W	ATT I	ACC	GAG	GAA E	GAC D	
AAA K	AGC	GCA	TTA L	TTT F	TCA	ATT I	
819 CAA Q	873 ACA T	927 GCA A	981 ACA T	L035 AAC N	1089 GAT D	L143 CTG L	
TTA L	CCC	ATG M	AAC N	GAC	ATT	ACA T	
GTT V	AAG K	CCA P	TCT	GAA E	AGT S	AAA K	

1242 CAG ACC Q T	1296 CCA GCA P A	1350 GCT AAG A K	1359 1368 1377 1386 1395 1404 ATG GAA AAG GAA TAT GGA AGC TTG AAG GAT TCC ACA AAA GAT GAT AAC TCC AAC M E K E Y G S L K D S T K D D N S N	1458 GAA GCC E A	1512 AAA GAA K E	1566 GCT TAT A Y
CTT	TTC	GCA A	AAC N	TTG	AAT N	GAT D
1233   GCT   A	1287 . CTT L	1341 GAA E	1395 GAT D	1449 TAT Y	1503 GGA G	1557 GCT A
ATT I	AAG K	GAA E	GAT D	GCC	AAG K	CAA
ATG M	AGC	AAG K	AAA K	GAA E	AAA K	AAA K
1224 GAA E	1278 ATA I	1332 ACC T	1386 ACA T	.440 ACA T	.494 GAC D	.548 AAT N
GAT D	AAT N	AGT S	TCC S	1 AAA K	CAT H	ATC I
$\mathop{\mathrm{TTG}}_{\mathrm{L}}$	GAC	GAC	GAT D	GGA	AAA K	TTC
1215 AAC N	1269 ACT T	L323 ACA T	L377 AAG K	.431 AAA K	.485 AAG K	.539 GAC D
GAA	GCT	GAA	TTG L	CCC P	1 TTG L	1 AGA R
CIT	AAT N	GAA E	AGC	GAA	TGG W	ATG M
1206 TAC Y	1260 AAA K	L314 CAT H	1368 GGA G	1422 GAT D	.476 GAA E	.530 AAG K
TCC	GAA	AGT	TAT Y	ACA T	1 ATT I	TCA S
GTT V	CTA L	AAG K	GAA E	AAG K	AAT N	CTT
1197 GGT G	1251 AAG K	L305 GAG E	L359 AAG K	.413 GGA G	.467 AAA K	.521 GAC D
GAA	AAC N	TCA	GAA E	GGA G	AGA R	1 TAT Y
GAA E	AAA K	CCA P	ATG M	CCA P	ATC	GAT D

FIGURE 1D

### 10077046 OF14GE

1620 TAT Y	1674 . AAA	1728 3CC AAG	1782 AAA	1836 GAA	
1575 1584 1593 1602 1611 1620 GTG GAG AAA GGC TTC CTT GAC AAG GAA GAA GCC GAG GCC ATC AAG CGC ATT TAT V E K G I L D K E E A E A I K R I Y	1674 TTC AGA AAA	0	TTA	1827 1836 TGT ATG TAA GCT GAA	
CGC R	TTC	1683 1692 1701 1710 1719 CAT AAT ATA GCT TAA AAC ACT TCT AAT TCT GTG ATT AAA ATT TTT TGA	1773 TAC AAG TGG	TAA	
1602 1611 GAA GCC GAG GCC ATC AAG E A E A I K	1665 TGT	1719 TTT	1773 AAG	1827 'ATG	
ATC	AAC	ATT	TAC		
GCC	TTC	AAA	TTT	AGT	
1602 GAG E	1656 TCT	1710 ; ATT	1764 . ACC	1800 1809 1818 CCC GTA AAA ACT ATC TGA AAG TAA AGT	
GCC	GAG	GTG	TTA	AAG	
GAA E	CAG	TCT	TAG	TGA	
1593 ; GAA E	1647 ATC	1701 AAT	1755 CAG	1809 ATC	
1584 1593 ATC CTT GAC AAG GAA I L D K E	AAG	TCT	1 TTA	ACT	
GAC	CAA	ACT	AAT	AAA	
1584 ; CTT L	1638 . TGG	1692 AAC	1746 ; CTG	1800 GTA	
ATC I	AAA	1 TAA	1 GTG	CCC	
9	TAA	GCT	AAA	CTT	-
1575 AAA K	1629 CTG L	1683 ATA	1737 TAG	1791 AGC TTT CTT	AAA AAA 3
GAG E	1629 1638 1647 1656 1665 AGC AGC CTG TAA AAA TGG CAA AAG ATC CAG GAG TCT TTC AAC TGT S S L	1 AAT	1737 1746 1755 1764 GGT TAT TAG AAA GTG CTG AAT TTA CAG TAG TTA ACC TTT	1 AGC	AAA
GTG	AGC	CAT	GGT	CAT /	AAA

FIGURE 1E

### 1077141 SEILE

54 ATC	108 AAG	162 CAG	216 CGG	270 GCC	324 AGT	378 CGG	432 GCG	486 3TA
⋖				-				
ATG	GTC	TCC	GAT	225	999	သသ	CAA	GGA
ACC	GCT	CTC	GCA	ACT	GAA	550	TGG	AAA
45 GCT	99 CGG	153 CAA	207 GAG	261 CTC	315 CGA	369 GGC	423 GAT	477 AGA
GCT	ည္သ	CTC	CTG	AAA	CGA	TCT	TCT	TGG
GCT	TCG	CTC	AGA	999	CGA	CGC	TCC	TAG
36	90 TTC	144 CAC	198 CCG	252 CCA	306 TGG	360 GCG	414 GCC	468 CCC
ACC	CTC	ටුපුට	AGT	CTC	AAA	GAA	CTG	CTC
ಎಂ	GGA	ටපුට	CCA	300	TCA	AAG	ည	ACG
27 CCA	81 CAG	135 GCC	189 CAA	243 GCT	297 AGC	351 ACT	405 ACA	459 CGA
TTC	CTG	TCT	CAA	SS	ACC	CCT	999	TTG
CAC	TTC	ACC	GCG	AAG	GTC	CCA	TAG	CCC
18 TTT	72 TGC	126 ATC	180 AGC	234 GCC	288 ACA	342 CAT	396 CGC	450 CAC
೨೦೦	TGA	GAC	990	AGC	200	CAC	ည	CCA
GCT	999	CCA	AGC	AGA	900	GAC	ACC	TCC
9 CTG	63 CCT	117 CTC	171 CGG	225 GGG	279 CAG	333 TCC	387 GTC	441 ACC
SSS	CAG	999	AGC	GAG	TCC	CGC	TTG	ည
CAG	TGC	GAA	CTC	999	TAC	990	CGA	CTG
5.								

#### FIGURE 2A

# 10070WE IF THE

540 GAA	594 CGG	648 AGG	702 GGC	756 TCA	810 GAT	864 CGC	918 AGC S
TTT	ACT	JGC	GTT	CCC	259	သသ	TTG
TCC	GGA	CTA	ATG	CCC	CGG	TTT	GGT
531 ATT	585 GAG	639 TTC	693 AAA	747 CGC	801 AGG	855 TTC	909 TTT F
TTG	299	TTC	SCG	CAA	990	CAT	CTG
AGC	GTG	CGA	TGG	GCT	TGG	TCG	9999
522 AGA	576 CCA	630 CAC	684 GCC	738 GTT	792 GCG	846 CAG	900 GCT
TTT	TCC	TGT	TCA	AGG	ATA	GCA	GCG
CTT	CTT	AAA	TTC	AAG	TAT	TGC	ATG
513 CCG	567 CCT	621 ACC	675 AAT	729 GCA	783 ACC	837 AGC	891 GTC
299	CTG	TCC	AGA	GAG	999	TGC	TCT
CAG	GCT	GTA	ATA	CTG	TCT	CAC	CCA
504 GGG	558 GAA	612 ACT	666 TCA	720 CAA	774 AGA	828 ACC	882 GCA
TTC	gce	GGA	CCA	CGA	ATC	CGC	GCA
CAA	CTA	CTG	GAC	CCA	CAA	GCT	CCT
495 AGC	549 AGA	603 TGG	657 GCA	711 AAG	765 AAC	819 CGC	873 GAC
ATT	GAA	GAT	TGA	ACG	GAA	TGT	TGA
GCT	GAT	CGC	AAA	သည	TTG	GAT	သသ

FIGURE 2B

### KONTYNAG GEIBAR

972 CGC GTC R V	1026 GCG GGA A G	1080 GAG GAC E D	1089 1098 1107 1116 1125 1134 GAA AAC TTG TAT GAG AAG AAC CCA GAC TCC CAT GGT TAT GAC AAG GAC CCC GTT E N L Y E K N P D S H G Y D K D P V	1188 ATC CTG I L	1242 GAG TGG E W	1296 CTT CCC L P	
GCC	GTG V	CCC	GAC	ATC I	AAA K	9 9	
963 GCC A	1017 GCT A	1071 GAA E	1125 AAG K	1179 TCC S	L233 ATG M	L287 AAT N	
CCG P	TCC	CCA	GAC	GTC	AGG R	GCC A	
CTC L	CCG	GAC D	TAT Y	9	T'AC Y	GAG	
954 GGG G	1008 GCC A	1062 GAG E	1116 GGT G	1170 TTT F	.224 GAC D	.278 CGA R	
CGA R	GTC	CAA	CAT H	TTC F	CCT P	1 TAC Y	2C
ACG	GTG V	TGG W	TCC	TTC	CTG	AAA K	JRE
945 GCG A	999 ACT T	L053 CCG P	L107 GAC D	1161 GTC V	1215 TAT Y	.269 GTG V	FIGURE 2C
GCG A	AGG R	ACA	CCA P	CIT L	GCC A	CTT L	_
GCA A	TCC	ACC	AAC N	CGA R	GTG	AGG R	
936 GCG A	990 TTC F	1044 CCG P	L098 AAG K	1152 ATG M	1206 TTT F	.260 GAG E	
TTG	AGC	GAA	GAG E	AAC N	ACC T	GCT A	
CTT	TCT	CCA P	TAT Y	TGG W	AGC	GAA E	
927 CGT R	981 GAA E	1035 CCC P	1089 TTG L	1143 GTC V	.197 GGC G	.251 CGC R	
CGC	TGG W	CGG J	AAC N	GAC D	CTT L	CGC R	
GCT	CGC	AAG K	GAA E	TTG	GTC	TCC	

#### 10077945 GETHOR

1350	GAT GAG	汩	1404	CIG
-	GAT	Д		$^{16}$ C
	GAG	д г о		င္ပင္ပ
1341	CCA	д	1395	ACC
	CIG	ы		ပ္ပ
	CAG	Ø		TTC
1332	GAC CCC AGC AAG ATC	н	1386	ည္ပ
	AAG	×		ACC
	AGC	ß		AGC
1323	ပ္ပ	д	1377	TCA AGA
<b>~</b>	GAC	Д		TCA
	TTC	Ľι		ပ္ပ
1314	TGC	ပ	1368	$^{166}$
<u>, , , , , , , , , , , , , , , , , , , </u>	AAC	z	· ·	AAG
	TCC	ß		GCT
1305	GAA	田	1359	GIT
П	ATG	I M E S N C	П	CCA
	ATC	н		TGA

1413 1422 1431 1440 1449 1458 CCT TTC TGA CCT CTT CTC AGA GCA CCT AAT TAA AGG GGC TCA AAG TCT GAA AAA

AAA AA 3'

FIGURE 2D

2379427 GI 413764	2379427 GI 413764	2379427 GI 413764	2379427 GI 413764	2379427 GI 413764	2379427 GI 413764	2379427 GI 413764
MGFLGTGTWILVLVL PIQAFPKPGSSQ MGFLWTGSWILVLVLNSGPIQAFPKPEGSQ	DKSLHNRELSAERPLNEQIAEAEEDKIKKT DKSLHNRELSAERPLNEQIAEAEADKIKKA	Y P P E N K P G Q S N Y S F V D N L N L L K A I T E K E K I F P S E S K P S E S N Y S S V D N L N L L R A I T E K E T V	EKERQSIRSPPPPDNKLNVEDVDSTKNRKLI EKERQSIRSPPPDNQLNVEDADSTKNRKLI	DD Y D S T K S G L D H K F Q D D P D G L H Q L D G T P L T D E Y D S T K S G L D H K F Q D D P D G L H Q L D G T P L T	A E D I V H K I A A R I Y E E N D R A V F D K I V S K L L N A E D I V H K I A T R I Y E E N D R G V F D K I V S K L L N	LGLITESQAHTLEDEVAEVLOKLISKEANN LGLITESQAHTLEDEVAEALOKLISKEANN
7 7	8 대	සු යු	88 저	118 121	148 151	178 181

FIGURE 3A

2379427	2379427	2379427	2379427	2379427	2379427	2379427
GI 413764	GI 413764	GI 413764	GI 413764	GI 413764	GI 413764	GI 413764
YEEDPNKPTSWTENQAGKIPEKVTPMAAIQ 237	DGLAKGENDETVSNTLTLTNGLERRTKTYS   237	EDNFEELQYFPNFYALLKSIDSEKEAKEKE 237	TLITIMKTLIDFVKMMVKYGTISPEEGVSY 237	LENLDEMIALQTKNKLEKNATD <u>NISKLFPA</u> 237	PSEKSHEETDSTKEEAAKMEKEYGSLKDST 237	K D D N S N P G G K T D E P K G K T E A Y L E A I R K N I E 237 K D D N S N L G G K T D E A T G K T E A Y L E A I R K N I E GI
YEETLDKPTSRTENQDGKIPEKVTPVAAVQ	DGFTNRENDETVSNTLTLSNGLERRTNPHR GI	EDDFEELQYFPNFYALLTSIDSEKEAKEKE GI	TLITIMKTLIDFVKMMVKYGTISPEEGVSY GI	LENLDETIALQTKNKLEKNTTDSKSKLFPA GI	PPEKSQEETDSTKEEAAKMEKEYGSLKDST GI	
208	238	268	298 301	328 331	358 361	388 391

FIGURE 3B

W L K K H D K K G N K E D Y D L S K M R D F I N K Q A D A Y 2379427 W L K K H N K G N K E D Y D L S K M R D F I N Q Q A D A Y GI 413764 418

448 VEKGILDKEEAEAIKRIYSSL 451 VEKGILDKEEANAIKRIYSSL

2379427 GI 413764

r

#### FIGURE 3C

FIGURE 4